

**METHOD AND SYSTEM FOR SCANNING AN IMAGE
USING A LOOK-DOWN LINEAR ARRAY SCANNER**

ABSTRACT OF THE DISCLOSURE

A system and method are disclosed which provide a look-down digital imaging device capable of capturing relatively high resolution digital images (e.g., comparable to traditional flatbed scanners). A preferred embodiment provides a look-down digital imaging device comprising a linear sensor for imaging a raster line of an original image placed substantially
5 below the look-down digital imaging device, and a lens for focusing reflected light from the original to such linear sensor. The linear sensor functions much as in traditional flatbed scanners in that it captures a single, congruent digital image of a scanned original. Most preferably, the linear sensor is a high resolution sensor that enables a digital image to be captured having resolution comparable to that of traditional flatbed scanners. For instance,
10 the linear sensor preferably enables capture of a digital image having a resolution no less than approximately 300 dpi. As a result, such linear sensor most preferably captures a digital image having sufficient resolution to permit optical character recognition operations to be performed on such captured image. In a most preferred embodiment, the look-down digital imaging device further comprises a digital video camera for capturing video data of a target
15 scan area. Such video data may be fed in substantially real-time to a display (either included within the look-down digital imaging device or included on a device to which the look-down digital imaging device is coupled), which may aid a user in properly aligning an original within the target scan area.